



Rusty Gray elected to National Academy of Engineering

February 16, 2017



LOS ALAMOS, N.M., Feb. 16, 2017—George “Rusty” Gray III, of Los Alamos National Laboratory’s Materials Science in Radiation and Dynamic Extremes group, has been elected to the National Academy of Engineering (NAE). He was cited for his contributions to the understanding of the dynamic and shock-loading deformation and damage response of materials.

“Rusty’s investigations of the structure and property behavior of materials subjected to dynamic and shock-loading conditions have provided significant understanding of material strength and the damage that results under extreme conditions,” said Alan Bishop, the Principal Associate Director of the Science, Technology and Engineering directorate at Los Alamos. “During a span of more than 35 years at the Laboratory, he has been a leader in both fundamental and applied research that has supported the development and validation of predictive models of materials behavior. Rusty’s achievements are outstanding examples of the engineering science underpinning the

Laboratory's national security mission and have much broader impact in the fields of materials science and structural engineering."

Election to the NAE is among the highest professional distinctions an engineer can attain.

About Gray

Gray, who received his doctoral degree in metallurgical engineering from Carnegie Mellon University, joined Los Alamos in 1985. He pursues fundamental and applied research primarily in the elucidation of the structure and property behavior of materials subjected to dynamic and shock-wave deformation. His research interests are in the structure/property behavior of materials under extreme conditions and the development and validation of predictive models of the strength and damage behavior of materials.

Gray is a fellow of ASM International; the American Physical Society; the Minerals, Metals and Materials Society (TMS) and Los Alamos. He has been a visiting fellow at Cambridge University and a visiting scholar at the University of California-San Diego. He served on several National Academies of Sciences advisory boards and panels, on the Acta Materialia, Inc.'s board of governors and as an adjunct professor at Ohio State University. In 2010, he served as the president of TMS. Since 2011, he has served as the chair of the Acta Materialia, Inc. board of governors. Gray has received a Los Alamos National Laboratory Fellows Prize, two Individual Distinguished Performance Awards and an Award for Excellence in Technology Transfer.

About the National Academy of Engineering

This year NAE elected 84 new members and 22 foreign members, bringing the total United States membership to 2,281 and foreign membership to 249. Membership honors those who have made outstanding contributions to engineering research, practice or education, including significant contributions to the engineering literature and to the pioneering of new and developing fields of technology, making major advancements in traditional fields of engineering or developing and implementing innovative approaches to engineering education.

The Academy's mission is to advance the well being of the nation by promoting engineering and marshaling the expertise and insights of eminent engineers to provide advice to the federal government on matters of engineering and technology.

Los Alamos National Laboratory

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(505) 667-7000

Los Alamos, NM

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